

Operations • Facilities Division

Sitewide Water Distribution, Phase 1

PROJECT REPORT September, 2004

SPONSOR: U.S. Department of Energy

Office of Science

Office of Laboratory Operations and ES&H (SC-80)

Laboratory Infrastructure Division (SC-82)

PROJECT NO.: 01MEL-001-012

BUDGET: \$8,264,000

COMPLETION: December, 2003

DESCRIPTION: Replacement of cast iron pipe with ductile iron pipe; electrical

isolation of ductile iron service lines to buildings and replacement of fire service risers; cathodic protection/electrical isolation of cement lined coated steel pipe; replacement of selected isolation valves; replacement/addition of pressure reducing stations; seismic upgrade of existing fire protection water storage tanks and application of epoxy coating to interior surfaces; installation of new fire protection water

storage tank to serve the East Canyon area.

STATUS: Construction complete. Arbitration pending regarding dispute with

construction subcontractor.

	Planned %	
Project Phase	Complete	Actual % Complete
Design	100%	100%
Construction	100%	100%

PROJECT TITLE: Sitewide Water Distribution Upgrade, Phase 1 Architect: > D. Truchlikova > Site Bldg: PM: > C. Allen Civil Engr: > S. Blair Mech Engr: > M. Dong PA > S. Morgan Client: > D. Lockhart Project No: > 01MEL-001-012 Account No: > FN1100 > LIP Elect Engr: > L. Domansky Fund Type: Report Period > 09-04 Status: > IC IHEM Engr: > NEPA/SARS > F/F Year Funded: > 2001 A. ASSESSMENT: 1. Major Accomplishments: 1. Punchlist items complete. 2. Developments Affecting Cost Estimate & Schedule: Change Order Status: Original Construction Subcontract Amount: 4,688,800 \$s in Mods: 423,127 **Current Subcontract Amount:** 5,111,927 \$s Negotiated: 1,308 *\$s Pending Neg: 0 Total Future Changes: 1,308 Potential Future Subcontract Amount: 5,113,235 * Does not include GBI claim amount for safety shutdown, PM & Calvin Road costs (\$571k) and \$171k for tank painting. 3. Brief Assessment of Overall Project: 1. Beneficial Occupancy Dec 17, 2003 - CD-4 Issued. 2. March 05 date set for arbitration. Sept 10, 2004 deadline date set by AAA for any addl amounts to be claimed from GBI. 3. Unilateral modification issued to close out all outstanding issues with GBI from LBNL position. 4. Contingency increased to reflect the assessment in Modification #13 of Liquidated Damages for delayed completion of the work. GBI is very likely to add the amount of Liquidated Damages (\$70K) to their claim amount. <u>No.</u> FY2004 Milestones (DRAFT) Actual Planned Forecast **Beneficial Occupancy** Dec-03 Dec-03 Dec-03 4. Environmental/Safety Documentation: ORIGINAL SCOPE NEPA Approval: 12/06/01 (Revised) CEQA Approval: 03/16/00 SARS Approval: 3/16/00

B. WC	PRK PERFORMED:						
WBS	Description	Physical Progress (%)					
		Plan	Actual				
1.	ED&I Title I	100%	100%				
	Title II	100%	100%				
	Title III	100%	99%				
2.	Construction	100%	100%				

C. PR	OJECT SCHEDULE:											
		Day(Mo/Yr)										
WBS	Description	Plan	For	ecast	Actual							
Ø.	Project Authorization											
1.	Engr'g, Design & Inspection											
	Title I Authorization (CD-1)	01-01			01-01							
	Title I Start	01-01			02-01							
	NEPA Approval	08-00			03-00							
	SARS Approval	08-00			03-00							
	Title I Completion	03-01			05-01							
	Title II Authorization (CD-2)	04-01			06-01							
	Title II Start	04-01			06-01							
	Release For Bid	10-01			11-01							
	Receive Bids	12-01			01-02							
	Title II Completion	01-02			02-02							
	Title III Authorization	01-02			12-01							
	Title III Start	01-02			02-02							
2.	Construction											
	 Approve Construction Start (CD-3) 	02-02			12-01							
	Subcontract Award	01-02			02-02							
	Construction Complete	12-03			12-03							
	 Approve Start of Operation (CD-4) 	12-03			12-03							
	Title III Completion	03-04		10-04								

	OST REPORT:	Amount (\$K)											
		Est. to	Cost	Liens	Total	Appvd.	Cost	Percent					
1.	Engr'g, Design & Insp.	16	1,624	20	1,640	1,540	1,640	99%					
2.	Construction	23	5,862	-199	5,885	5,950	5,885	100%					
3.	Standard Equipment	0	0	0	0	0	0	0%					
4.	Project Management	3	442	0	445	460	445	99%					
	Subtotal	42	7,928	-179	7,970	7,950	7,970	99%					
5.	Contingency	294	0	0	294	314	294	0%					
	Total (\$K)	336	7,928	-179	8,264	8,264	8,264	96%					
	Change Since Last Report	-27	27	-19	0	0	0						
	Percent Spent (B/D) =	>	96%										
	Total Obligation (B+C) =	>	\$7,749										
	DOE/OAK Authorization to date =	>	\$8,264										

Sitewide Water Distribution Upgrade, Phase I BA/BO SCHEDULE (\$K) September 2004

4.000						/ 2001				2002			FY				FY		
				1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
	1.1 Engineering, Design &	Inexection		O N D	J F N	I A M J	J A S	OND	J F M	A M J	J A S	OND	J F M	A M J	J A S	O N D	J F M	A M J	J A
4.000	1.1.1 LBNL Activities	Inspection																	
4.000	1.1.1 LBNL Activities																		
	1.1.1.2 Title I		41		20/20	21/21													
	1.1.1.2 Title II		124			26/26	39/39	45/45	14/14										
	1.1.1.3 Title III		185						8/8	48/48	28/28	26.5/26.5	18/18	28/28	14/14	14.5/14.5			
	1.1.1.4 Inspec	tion	295						3/3	21/21	28/28	65.8/65.8	63/63	57/57	48/48	9.2/9.2	1		
	1.1.1.5 Consul	Itants	99			20/20	25/25	7/7	0/0	1/1	2/2	9/9	14/14	7/7	8/8	6/6	1		
	1.1.2 Architect/Engine	or															4		
	1.1.2 Architect/Engine	ei																	
	1.1.2.1 Title I		126		10/10	116/116													
	1.1.2.2 Title II		503			390/39	53/273	38/110	0/22	0/37									
	1.1.2.3 Title III		218	105/0						0/24	0/56	46/88	19/7	0/7	0/5	70/53			
	1.2 Construction																1		
	1.2.1 Utilities		5940	0/0	2/2	5/5	35/15	16/6	3535/35	79/543	94/749	315/1462	1227/486	160/783	35/814	437/1040			
				0,0	-,-	0,0	00/10	10,0	0000/00	7 67 6 16	0 117 10	0.10/1.102	12277 100	100/100	00/011	10171010	4		
	1.3 Relocations		0																
	1.4 Standard Equipment		0																
	1.5 Project Management		433	1/1	26/26		21/21	38/38		49/49	49/49	55/55	50/50	32/32	18/18	12/12	24/24		
	1.6 Contingency	Subtotal Contingency by Year	7964 300			943/687 0/0			413	133/1953				5/4165 D/O				/1159 0/300	